

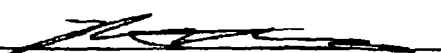
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1556.0290000/RWE	APPLICATION NO. 09/869,159
	APPLICANTS Kastelic and Cheneval	
	\$ 371 DATE August 15, 2001	GROUP 1645

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
ca ↓	AA1	5,444,149	08/22/1995	Keene et al.	530	300	05/11/1992
	AB1	5,587,300	12/24/1996	Malter	435	69.1	04/26/1994
	AC1	5,698,427	12/16/1997	Keene et al.	435	172.3	06/02/1995
	AD1	5,731,343	03/24/1998	Feng et al.	514	450	02/24/1995
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
ca ↓	AL1	WO 93/20212	10/14/1993	WIPO			Yes No
	AM1	WO 98/39484	09/11/1998	WIPO			Yes No
	AN1	9828710.5	12/24/1998	UK			Yes No
	AO1	9628707.1	12/24/1998	UK			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
ca ↓	AR	1	Akashi, M. et al., "Number and Location of AUUUA Motifs: Role in Regulating Transiently Expressed RNAs," <i>Blood</i> 83:3182-3187, The American Society of Hematology (1994).
	AS	1	Auwerx, J., "The human leukemia cell line, THP-1: A multifaceted model for the study of monocyte-macrophage differentiation," <i>Experientia</i> 47:22-31, Birkhäuser Verlag Basel (1991).
	AT	1	Banhölzer, R. et al., "Rapamycin Destabilizes Interleukin-3 mRNA in Autocrine Tumor Cells by a Mechanism Requiring an Intact 3' Untranslated Region," <i>Mol. Cell. Biol.</i> 17:3254-3260, American Society for Microbiology (June 1997).

EXAMINER 	DATE CONSIDERED 8/14/02
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 1556.0290000/RWE		APPLICANT Kastelic and Cheneval		RECEIVED APR 11 8 2002 TECH CENTER 1600/2900	
		§ 371 DATE August 15, 2001		GROUP 1649			

U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CA	AR	2	Beutler, B. et al., "Assay of a Ribonuclease That Preferentially Hydrolyses mRNAs Containing Cytokine-Derived UA-Rich Instability Sequences," <i>Biochem. Biophys. Res. Comm.</i> 152:973-980, Academic Press, Inc. (1988).
↓	AS	2	Chen, C.-Y.A. et al., "Interplay of Two Functionally and Structurally Distinct Domains of the c-fos AU-Rich Element Specifies Its mRNA-Destabilizing Function," <i>Mol. Cell. Biol.</i> 14:416-426, American Society for Microbiology (1994).
↓	AT	2	Chen, C.-Y.A. et al., "mRNA Decay Mediated by Two Distinct AU-Rich Elements from c-fos and Granulocyte-Macrophage Colony-Stimulating Factor Transcripts: Different Deadenylation Kinetics and Uncoupling from Translation," <i>Mol. Cell. Biol.</i> 15:5777-5788, American Society for Microbiology (1995).

EXAMINER	DATE CONSIDERED 8/7/02
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	AL					Yes No	
	AM					Yes No	
	AN					Yes No	
	AO					Yes No	
	AP					Yes No	

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CQ	AR	4	Crawford, E.K. et al., "The Role of 3' Poly(A) Tail Metabolism in Tumor Necrosis Factor- α Regulation," <i>J. Biol. Chem.</i> 272:21120-21127, The American Society for Biochemistry and Molecular Biology, Inc. (August 1997).
↓	AS	4	Danner, S. et al., "Agonist Regulation of Human β_1 -Adrenergic Receptor mRNA Stability Occurs via a Specific AU-rich Element," <i>J. Biol. Chem.</i> 273:3223-3229, The American Society for Biochemistry and Molecular Biology, Inc. (February 1998).
↓	AT	4	Fan, X.C. and Steitz, J.A., "Overexpression of HuR, a nuclear-cytoplasmic shuttling protein, increases the in vivo stability of ARE-containing mRNAs," <i>EMBO J.</i> 17:3448-3460, Oxford University Press (June 1998).

EXAMINER	DATE CONSIDERED 8/27/01
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
CA	AR	5	Gil, P. and Green, P.J., "Multiple regions of the Arabidopsis SAUR-AC1 gene control transcript abundance: the 3' untranslated region functions as an mRNA instability determinant," EMBO J. 15:1678-1686, Oxford University Press (1996).				
↓	AS	5	Heaton, J.H. et al., "Cyclic Nucleotide Regulation of Type-1 Plasminogen Activator-Inhibitor mRNA Stability in Rat Hepatoma Cells," J. Biol. Chem. 273:14261-14268, The American Society for Biochemistry and Molecular Biology, Inc. (June 1998).				
↓	AT	5	Kastelic, T. et al., "Induction of Rapid IL-1β mRNA Degradation in THP-1 Cells Mediated Through the AU-Rich Region in the 3'UTR by a Radicicol Analogue," Cytokine 8:751-761, Academic Press Limited (1996).				

EXAMINER	DATE CONSIDERED 8/24/02
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		APPLICANTS Kastelic and Cheneval		<div style="font-size: 2em; transform: rotate(-5deg); opacity: 0.5;">RECEIVED</div> <div style="font-size: 1.2em; transform: rotate(-5deg);">APR 08 2002</div>	
		§ 371 DATE August 15, 2001			

U.S. PATENT DOCUMENTS						
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	AL					Yes	No
	AM					Yes	No
	AN					Yes	No
	AO					Yes	No
	AP					Yes	No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<div style="font-size: 1.5em;">CQ</div>	AR	3	Chen, C.-Y.A. and Shyu, A.-B., "AU-rich elements: characterization and importance in mRNA degradation," <i>TIBS</i> 20:465-470, Elsevier Science Ltd. (1995).
<div style="font-size: 2em;">↓</div>	AS	3	Chen, C.-Y.A. and Shyu, A.-B., "Selective Degradation of Early-Response-Gene mRNAs: Functional Analyses of Sequence Features of the AU-Rich Elements," <i>Mol. Cell. Biol.</i> 14:8471-8482, American Society for Microbiology (1994).
<div style="font-size: 2em;">↓</div>	AT	3	Claffey, K.P. et al., "Identification of a Human VPF/VEGF 3' Untranslated Region Mediating Hypoxia-induced mRNA Stability," <i>Mol. Biol. Cell</i> 9:469-481, American Society for Cell Biology (February 1998).

EXAMINER [Signature]	DATE CONSIDERED 8/2/02
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	6	Klausner, R.D. et al., "Regulating the Fate of mRNA: The Control of Cellular Iron Metabolism," Cell 72:19-28, Cell Press (1993).
	AS	6	Kobayashi, M. et al., "Characterization of the 3' untranslated region of mouse DNA topoisomerase IIα mRNA," Gene 215:329-337, Elsevier Science B.V. (July 1998).
	AT	6	Lagnado, C.A. et al., "AUUUA Is Not Sufficient To Promote Poly(A) Shortening and Degradation of an mRNA: the Functional Sequence within AU-Rich Elements May Be UUAUUUA(U/A)(U/A)," Mol. Cell. Biol. 14:7984-7995, American Society for Microbiology (1994).

EXAMINER	DATE CONSIDERED 8/21/02
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CA	AR	2	Levy, J.R. et al., "Sequence and functional characterization of the terminal exon of the human insulin receptor gene," <i>Biochim. Biophys. Acta</i> 1263:253-257, Elsevier Science B.V. (1995).
↓	AS	2	Levy, A.P. et al., "Post-transcriptional Regulation of Vascular Endothelial Growth Factor by Hypoxia," <i>J. Biol. Chem.</i> 271:2746-2753, The American Society for Biochemistry and Molecular Biology, Inc. (1996).
↓	AT	2	Lewis, T. et al., "Mapping of a Minimal AU-rich Sequence Required for Lipopolysaccharide-induced Binding of a 55-kDa Protein on Tumor Necrosis Factor-α mRNA," <i>J. Biol. Chem.</i> 273:13781-13786, The American Society for Biochemistry and Molecular Biology, Inc. (May 1998).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CA	AR	8	Nanbu, R. et al., "Multiple Instability-Regulating Sites in the 3' Untranslated Region of the Urokinase-Type Plasminogen Activator mRNA," <i>Mol. Cell. Biol.</i> 14:4920-4928, American Society for Microbiology (1994).
↓	AS	8	Sachs, A.B., "Messenger RNA Degradation in Eukaryotes," <i>Cell</i> 74:413-421, Cell Press (1993).
↓	AT	8	Shaw, G. and Kamen, R., "A Conserved AU Sequence from the 3' Untranslated Region of GM-CSF mRNA Mediates Selective mRNA Degradation," <i>Cell</i> 46:659-667, Cell Press (1986).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
ca ↓ ✓	AK AS AT	9 2 2	Shyu, A.-B. et al., "Two distinct destabilizing elements in the c-fos message trigger deadenylation as a first step in rapid mRNA decay," <i>Genes Dev.</i> 5:221-231, Cold Spring Harbor Laboratory Press (1991). Stoecklin, G. et al., "Functional Hierarchy of AUUUA Motifs in Mediating Rapid Interleukin-3 mRNA Decay," <i>J. Biol. Chem.</i> 269:28591-28597, The American Society for Biochemistry and Molecular Biology, Inc. (1994). Stolle, C.A. and Benz Jr., E.J., "Cellular factor affecting the stability of β -globin mRNA," <i>Gene</i> 62:65-74, Elsevier Science Publishers B.V. (1988).

EXAMINER	DATE CONSIDERED 8/24/02
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CQ	AR	10	Sullivan, M.L. and Green, P.J., "Mutational analysis of the DST element in tobacco cells and transgenic plants: Identification of residues critical for mRNA instability," RNA 2:308-315, RNA Society (1996).
	AS	10	Winstall, E. et al., "Rapid mRNA Degradation Mediated by the c-fos 3' AU-Rich Element and That Mediated by the Granulocyte-Macrophage Colony-Stimulating Factor 3' AU-Rich Element Occur through Similar Polysome-Associated Mechanisms," Mol. Cell. Biol. 15:3796-3804, American Society for Microbiology (1995).
V	AT	10	Xu, N. et al., "Modulation of the Fate of Cytoplasmic mRNA by AU-Rich Elements: Key Sequence Features Controlling mRNA Deadenylation and Decay," Mol. Cell. Biol. 17:4611-4621, American Society for Microbiology (August 1997).

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	8/14/01

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
CA	AR	11	Zhang, S. et al., "Identification and Characterization of a Sequence Motif Involved in Nonsense-Mediated mRNA Decay," <i>Mol. Cell. Biol.</i> 15:2231-2244, American Society for Microbiology (1995).
↓	AS	11	Zubiaga, A.M. et al., "The Nonamer UUAUUUAUU Is the Key AU-Rich Sequence Motif That Mediates mRNA Degradation," <i>Mol. Cell. Biol.</i> 15:2219-2230, American Society for Microbiology (1995).
↓	AT	11	Kastelic et al., "Compounds Which Affect mRNA Stability and Uses Therefor," U.S. Nonprovisional Application 09/869,078, filed August 15, 2001.

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